

常州进出口工业及消费品安全检测中心 江苏出入境检验检疫局危险货物与包装检测中心 国家化学品分类鉴别与评估重点实验室(江苏)







Design Report of Safety Data Sheet

Report No.: DG17208901 Date: 2017/11/16

			10.2011/11/10				
Name of the sample	of the sample RO scale inhibitor UN-307						
Applicant	Shaanxi Ande Techno	Shaanxi Ande Technological Industry Co., Ltd.					
Supplier	Shaanxi Ande Techno	Shaanxi Ande Technological Industry Co., Ltd.					
Composition of the sample	Etidronic acid; Water						
Warranty of Design	GLOBALLY HARM LABELLING OF CH	ONIZED SYSTEM OF CLA EMICALS (GHS) Sixth revised e	SSIFICATION AND				
Design Result of SDS please see next page.							
Designer	华变	Approver	王和梅				

- 1. This SDS is valid before the implementation of the seventh revised edition GHS.
- 2. Information from applicant is key of this SDS, so the center will not respond for the wrong of applicant.

注 1: 除非特别说明,本报告中数据仅对检测样品负责

UNLESS OTHERWISE STATED. THE RESULTS SHOWN IN THIS TEST REPORT REFER ONLY TO THE SAMPLE(S) TESTED.

注2: 未经本中心许可,本报告不得部分复制。

THIS TEST REPORT CAN NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT PRIOR WRITIEN PERMISSION OF THE CENTER.

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班出 出了了

SAFETY DATA SHEET

RO scale inhibitor UN-307

Shaanxi Ande Technological Industry Co., Ltd.

According to GHS (Sixth Revised Edition)



Section 1 Product and Company Identification

> Product Identifier

Product Name

RO scale inhibitor UN-307

Synonyms

4

CAS No.

_

EC No.

_

Molecular Formula

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Uses

Please consult manufacturer.

Uses Advised Against

Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name

Shaanxi Ande Technological Industry Co., Ltd.

Application Address

Flat L, 6F, Western Power International Business Center, 66 Huzhu Road, Xian

City, Shaanxi, China

Applicant Post Code

710048

Applicant Telephone

+86-29-82480585 +86-29-82486083

Applicant Fax
Applicant E-mail

100-23-02400003

Supplier Name

huangjin@sxand.com

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Shaanxi Ande Technological Industry Co., Ltd.

Supplier Address

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City, Shaanxi, China

Supplier Post Code

710048

Supplier Telephone

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Supplier Fax Supplier E-mail

huangjin@sxand.com

> Emergency Phone Number

Emergency Phone

Number

+86-29-82480585

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the sixth revised edition):

> GHS Hazard Class

Acute Toxicity - Oral

Category 5

Skin

Corrosion/Irritation Category 1

Eye Damage/Irritation Category 1

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H303 May be harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

> Precautionary Statements

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312 Call a POISON CENTER/doctor,if you feel unwell.
P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.	
Etidronic acid	Commercial secrets	2809-21-4	220-552-8	
Water	Commercial secrets	7732-18-5	231-791-2	

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice Immediate medical attention is required. Show this safety data sheet (SDS) to

the doctor in attendance.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician if feel uncomfortable.

Ingestion

Protecting of

First-aiders

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of

water for at least 15 minutes and consult a physician if feel uncomfortable.

Do not induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

Inhalation Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not

breathing, give artificial respiration and consult a physician immediately. Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media

Unsuitable

Extinguishing Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

1 Fire may produce irritating, poisonous or corrosive gases.

2 Containers may explode when heated.

3 Fire exposed containers may vent contents through pressure relief valves.

4 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a

spill by bunding.

- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection Wear protective gloves (such as butyl rubber) , passing the tests according to

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

Respiratory protection experienced, use a full-face respirator with multi-purpose combination (US) or

type AXBEK (EN 14387) respirator cartridges.

Skin and Body

Protection Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Pale yellow liquid Odor: No information available

Odor Threshold: No information available **pH**: 2

Melting Point/Freezing Point (°C): No information Initial Boiling Point and Boiling Range (°C): No

available information available

Flash Point (°C)(Closed Cup): No information Evaporation Rate: No information available available

Upper/lower explosive limits[%(v/v)]: Upper limit : Flammability: Not applicable No information available ; Lower limit : No information

Relative Vapour Density(Air = 1): No information Vapor Pressure (MPa): No information available

available

Relative Density(Water=1): No information available

n-Octanol/Water Partition Coefficient: No

information available

Decomposition Temperature (°C): No information Kinematic Viscosity (mm²/s): No information available

Particle characteristics: Not applicable

Solubility: No information available

Auto-Ignition Temperature(°C): No information

available

available

Section 10 Stability and Reactivity

Reactivity Contact with incompatible substances can cause decomposition or other

chemical reactions.

Chemical Stability Stable under proper operation and storage conditions.

Possibility of In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and

Hazardous Reactions release hydrogen.

Conditions to Avoid Incompatible materials, heat, flame and spark.

Incompatible Materials Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal

oxide, acyl halide and metal phosphide.

Hazardous

Decomposition

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component CAS No.		LD ₅₀ (Oral) LD ₅₀ (Dermal) LC ₅₀ (Inh		LC ₅₀ (Inhalation, 4h)	
Etidronic acid	2809-21-4	1800mg/kg(Mouse)	No information available	No information available	

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)

> Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	2809-21-4	Etidronic acid	Not Listed	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability Bioaccumulative

No information available

Potential

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment Etidronic acid does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Water does not meet the criteria for PBT and vPvB according to Regulation (EC)

No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and

regulation. Recommend the use of incineration disposal.

Contaminated Packaging Disposal

Recommendations

Containers may still present chemical hazard when empty. Keep away from hot

and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1 and 13.2.

Section 14 Transport Information

Transporting Label



Marine pollutant

None

UN Number

3265

UN Proper Shipping Name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Transport Hazard Class

8

Transport Subsidiary

O

Hazard Class

None

Packing Group

Ш

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Etidronic acid	√	√	√	V	√	√	√	√	√
Water	√	V	V	√	√	√	√	√	×

[EINECS] European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIOC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

[KECI] Existing and Evaluated Chemical Substances.

[AICS] Australia Inventory of Chemical Substances.

[ENCS] Existing And New Chemical Substances.

Note

"\" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date

2017/11/16

Revision Date

2017/11/16

Reason for Revision

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

